Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A lignocellulosic composite material comprising: lignocellulosic particles in an amount of from about 75 to 99.5 parts by dry weight based on 100 parts by weight of said composite material; and

a binder resin in an amount of from 0.5 to 25 parts by weight based on 100 parts by weight of said composite material, said binder resin comprising[[;]] :

a polyisocyanate and at least one of an insecticide and/or at least one of a fungicide dispersed throughout said polyisocyanate and dispersed throughout said lignocellulosic particles.

Claim 2 (Original): A composite material as set forth in claim 1 wherein said polyisocyanate is selected from at least one of diphenylmethane diisocyanate and toluene diisocyanate.

Claim 3 (Currently Amended): A composite material as set forth in ~~claims 1 or 2~~ claim 1 wherein said polyisocyanate is present in an amount of from 0.5 to 25 parts by weight based on 100 parts by dry weight of said lignocellulosic material.

Claim 4 (Currently Amended): A composite material as set forth in ~~claims 1 to 3~~ claim 1 wherein at least one of an insecticide and/or at least one of a fungicide are present in an amount of from 1 to 500 parts per million based on the dry weight of said lignocellulosic particles.

Claim 5 (Currently Amended): A composite material as set forth in ~~claims 1 to 4~~ claim 1 further comprising a single layer having a thickness of from 0.1 inches to 2 feet with at least one of an insecticide and/or at least one of a fungicide dispersed throughout said layer.

Claim 6 (Currently Amended): A composite material as set forth in ~~claims 1 to 5~~ claim 1 further comprising a plurality of layers with each of said plurality of layers having a thickness of from 0.1 inches to 6 inches, with at least one of an insecticide and/or at least one of a fungicide dispersed throughout each of said plurality of layers.

Claim 7 (Original): A binder resin for forming a lignocellulosic composite material, said binder resin comprising:

a polyisocyanate;

a polar solvent; and

at least one of an insecticide and/or at least one of a fungicide dissolved in said polar solvent to form a pesticidal solution;

wherein said polar solvent is capable of dissolving at least 10 grams of at least one of an insecticide and/or at least one of a fungicide per one liter of said polar solvent.

Claim 8 (Currently Amended): A binder resin as set forth ~~on~~ in claim 7, comprising a polyisocyanate;

a polar solvent; and

a pyrazole insecticide dissolved in said polar solvent to form an insecticidal solution;

wherein said polar solvent is capable of dissolving at least 10 grams of said insecticide per one liter of said polar solvent.

Claim 9 (Currently Amended): A binder resin as set forth in ~~claims 7 or 8~~ claim 7 wherein said polar solvent is selected from at least one of an alcohol, a ketone, and an ester.

Claim 10 (Currently Amended): A binder resin as set forth in ~~claims 7 to 9~~ claim 7 wherein said polar solvent is selected from the group of octyl alcohol, isopropyl alcohol, methyl alcohol, acetone, carpryl alcohol, propylene carbonate, gamma-butyrolactone, 3-pentanone, 1-methyl-2-pyrrolidinone, and combinations thereof.

Claim 11 (Currently Amended): A binder resin as set forth in ~~claims 7 to 10~~ claim 7 wherein said polar solvent is present in an amount of from 0.1 to 20 parts by weight based on 100 parts by weight of said binder resin.

Claim 12 (Currently Amended): A binder resin as set forth in ~~claim 7 to 11~~ claim 7 wherein said polyisocyanate is selected from at least one of diphenylmethane diisocyanate and toluene diisocyanate.

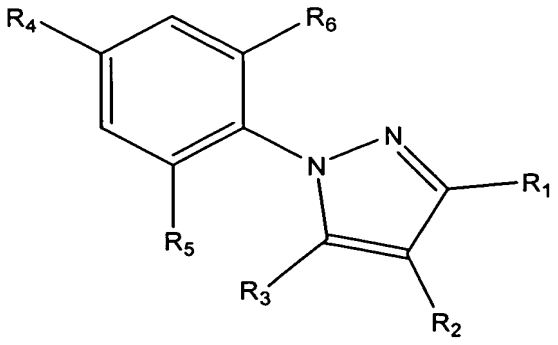
Claim 13 (Currently Amended): A binder resin as set forth in ~~claims 7 to 12~~ claim 7 wherein said at least one of an insecticide and/or at least one of a fungicide are present in an amount of from 0.001 to 10 parts by weight based on 100 parts by weight of said binder resin.

Claim 14 (Currently Amended): A binder resin as set forth in ~~claims 7 to 12~~ claim 7 wherein the at least one of an insecticide and/or at least one of a fungicide are present in at least one of a powder form and a granular form prior to being dissolved in said polar solvent.

Claim 15 (Currently Amended): A composite material as set forth in ~~claims 1 to 6 or a binder resin as set forth in claims 7 to 14~~ claim 1 wherein said insecticide is selected from at least one of the following: pyrazole insecticides, pyrrole insecticides, pyrethroid insecticides, amidinohydrazone insecticides, semicarbazone insecticides, and neo-nicotinoid insecticides.

Claim 16 (Currently Amended): A composite material as set forth in ~~claims 1 to 6 or a binder resin as set forth in claims 7 to 14~~ claim 1 wherein said fungicide is selected from at least one of the following families: azoles, benzimidazoles, morpholines, dicarboxamides, and strobilurines.

Claim 17 (Currently Amended): A composite material as set forth in ~~claims 1 to 6 or a binder resin as set forth in claims 7 to 14~~ claim 1 wherein said pyrazole insecticide is of the general formula:



;

wherein

R_1 is cyano, C_1-C_6-alkoxy, or C_1-C_6-alkyl,

R_2 is $S(O)_nA$, wherein A is C_1-C_6-haloalkyl and n is 0, 1, or 2,

R_3 is hydrogen, amino, or C_1-C_6-alkyl,

R_4 is C_1-C_6-haloalkyl, and

R_5, R_6 are halogen.

Claim 18 (Currently Amended): A composite material as set forth in ~~claims 1 to 6 or a binder resin as set forth in claims 7 to 14~~ claim 1 wherein said pyrazole insecticide is fipronil.

Claim 19 (Currently Amended): A method of forming a lignocellulosic composite material as set forth in ~~claims 1 to 6~~ claim 1, said method comprising the steps of:
dispersing at least one of an insecticide and/or at least one of a fungicide in a polyisocyanate to form a binder resin;

forming a lignocellulosic mixture by mixing lignocellulosic particles in an amount of from about 75 to 99.5 parts by weight based on 100 parts by weight of the lignocellulosic mixture with the binder resin in an amount of from 0.5 to 25 parts by weight based on 100 parts by weight of the lignocellulosic mixture; and

forming a lignocellulosic composite material by compressing the lignocellulosic mixture at an elevated temperature and under pressure.

Claim 20 (Original): A method as set forth in claim 19 wherein the step of forming the lignocellulosic mixture is further defined as comprising the step of mixing the lignocellulosic particles with the binder resin to coat the lignocellulosic particles with at least one of the insecticide and/or at least one of a the fungicide.

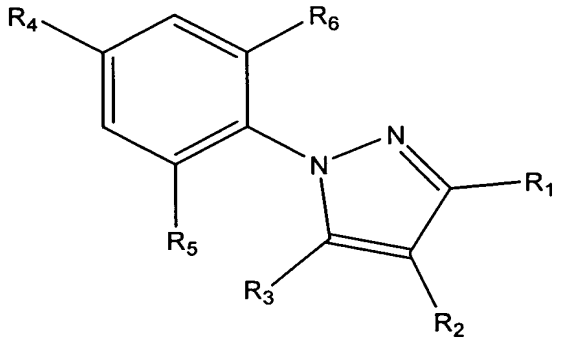
Claim 21 (Currently Amended): A method as set forth in ~~claims 19 or 20~~ claim 19 wherein the step of forming the lignocellulosic composite material is further defined as forming a single layer having a thickness of from 0.1 inches to 2 feet with at least one of the insecticide and at least on of the fungicide dispersed throughout the layer.

Claim 22 (Currently Amended): A method as set forth in ~~claims 19 or 20~~ claim 19 wherein the step of forming the lignocellulosic composite material is further defined as forming a plurality of layers with each of said plurality of layers having a thickness of from 0.1 inches to 6 inches with at least one of the insecticide and the fungicide dispersed throughout each of the plurality of layers.

Claim 23 (New): A binder resin as set forth in claim 7 wherein said insecticide is selected from at least one of the following: pyrazole insecticides, pyrrole insecticides, pyrethroid insecticides, amidinohydrazone insecticides, semicarbazone insecticides, and neo-nicotinoid insecticides.

Claim 24 (New): A binder resin as set forth in claim 7 wherein said fungicide is selected from at least one of the following families: azoles, benzimidazoles, morpholines, dicarboxamides, and strobilurines.

Claim 25 (New): A binder resin as set forth in claim 7 wherein said pyrazole insecticide is of the general formula:



;

wherein

R_1 is cyano, C_1-C_6-alkoxy, or C_1-C_6-alkyl,

R_2 is $S(O)_nA$, wherein A is C_1-C_6-haloalkyl and n is 0, 1, or 2,

R_3 is hydrogen, amino, or C_1-C_6-alkyl,

R_4 is C_1-C_6-haloalkyl, and

R_5, R_6 are halogen.

Claim 26 (New): A binder resin as set forth in claim 7 wherein said pyrazole insecticide is fipronil.